

NERVOUS SYSTEM A+P

MODULE 5

NERVOUS SYSTEM

→ **CENTRAL**
- BRAIN
- SPINAL CORD

→ **PERIPHERAL**
- NERVES
- GANGLIA

FUNCTIONAL ORGANIZATION:

SENSORY INPUT

SOMATIC SENSORY
VISCERAL SENSORY

MOTOR OUTPUT

SOMATIC MOTOR
AUTONOMIC MOTOR

SYMPATHIC NS

V.S. PARASYMPATHETIC

QUESTIONS:

1. WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THAT DIVISION CALLED?
2. WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THAT DIVISION CALLED?
3. WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
4. WHAT ARE THE PARTS OF A NEURON?
5. WHAT IS AN ACTION POTENTIAL?
- WHERE ARE THEY GENERATED?
- WHERE DOES ACTION POTENTIAL GO FROM THERE?
6. WHY IS MYELIN IMPORTANT TO THE FUNCTIONING OF NEURONS?
(BRIEFLY, HOW DOES IT INVOLVE MYELIN?)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

CNS - BRAIN - "most complicated, mysterious, sensitive organs on Earth"
PN.S - SPINAL CORD
- NERVES
- GANGLIA
→ (to the side) → anything with "nerves"
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

- ↳ PROPRICEPTION
- ↳ SENSATION

"LEAVING" CNS

↳ going to EFFECTORS

"BODY"

SOMATIC MOTOR

- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

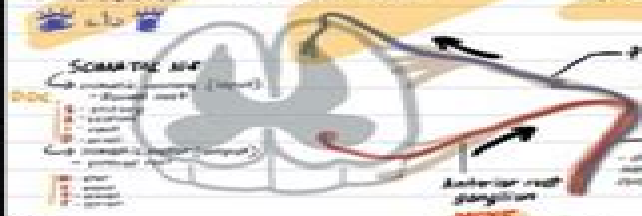
↳ INAWARE OF (don't have to think about)
- HEART RATE, BREATHING
↳ CARDIAC MUSCLE, smooth muscle, glands.

SOMATIC NS

- PROPRICEPTION
- SENSATION

VISCERAL NS

- INTERNAL ORGANS
- BLOOD VESSELS



① ACTION POTENTIALS ARE NERVE SIGNALS

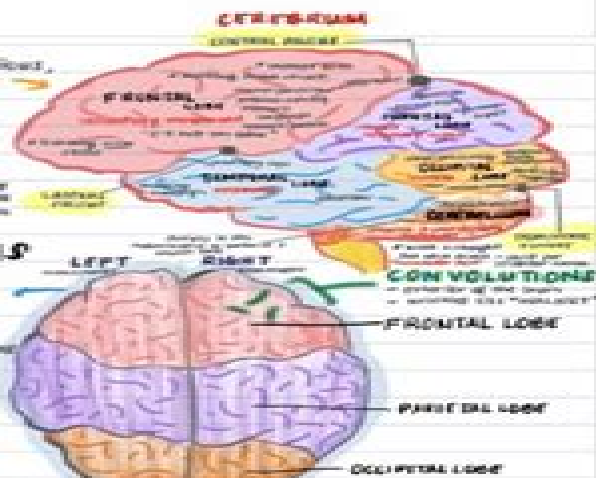
- GENERATED IN THE AXON HILLOCK - FROM THERE,
- THEY TRAVEL DOWN THE AXON (1/2 m/s) BECAUSE OF MYELIN SHEATH,
- TOWARDS THE EFFECTOR END CELLS.

② MYELIN IS AN INSULATING LAYER THAT SURROUNDS

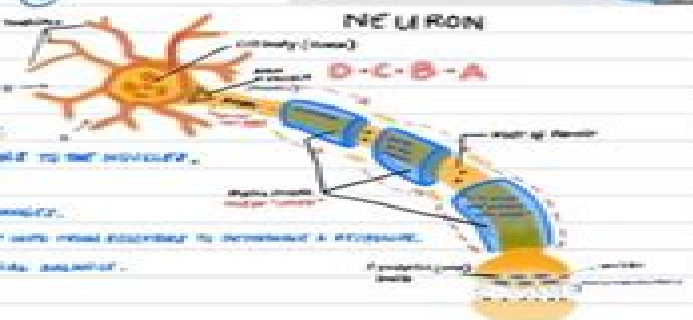
PROTECTION FOR THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL FIBERS. DENDRITES AND EFFERENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF MUSCLES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE ONE TO THE MUSCLES.

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY HOMEOSTASIS!

- ↳ RECEPTOR: DETECTS CHANGE IN (INTERNAL/EXTERNAL) ENVIRONMENT.
- ↳ CONTROL CENTER (AUTONOMIC NS): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- ↳ EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY HOMEOSTASIS.
- (E.G. CONVICTION (WARMING UP BODY) TEMPERATURE REGULATOR)



- ① SOMATIC NERVOUS SYSTEM
- ② AUTONOMIC NERVOUS SYSTEM



SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, INTEGRATING DIFFERENT PARTS OF THE BODY INTO ONE COHERENT AND FUNCTIONAL WHOLE. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Anatomy Of The Brain Lecture Notes

H Kauffman



Anatomy Of The Brain Lecture Notes:

Brain Mapping: The Methods Arthur W. Toga, John C. Mazziotta, 2002-09-25 The number of scientists and laboratories involved with brain mapping is increasing exponentially and the second edition of this comprehensive reference has also grown much larger than the first published in 1996 including for example five chapters on structural and functional MRI where the fi

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The Oxford Handbook of the History of Psychology: Global Perspectives David B. Baker, 2012 The science and practice of psychology has evolved around the world on different trajectories and timelines yet with a convergence on the recognition of the need for a human science that can confront the challenges facing the world today Few would argue that the standard narrative of the history of psychology has emphasized European and American traditions over others but in today's global culture there is a greater need in psychology for international understanding This volume describes the historical development of psychology in countries throughout the world Contributors provide narratives that examine the political and socioeconomic forces that have shaped their nations psychologies Each unique story adds another element to our understanding of the history of psychology The chapters in this volume remind us that there are unique contexts and circumstances that influence the ways in which the science and practice of psychology are assimilated into our daily lives Making these contexts and circumstances explicit through historical research and writing provides some promise of greater international insight as well as a better understanding of the human condition

Anatomy of the Cortex Valentino Braitenberg, Almut Schüz, 2013-11-09 In this essay we propose a view of the cerebral cortex from an unusual angle determined by our search for the most general statements on the relation between cortical structure and function Our results may be at variance with the ideas of those physiologists who have specialized subsystems of the cortex in mind but are not in contrast with them as we hope to show Our view is akin to one presented by Moshe Abeles in his monograph Local Cortical Circuits 1982 It is related to the theory developed by Gunther Palm for many years our partner in Neural Assemblies 1982 It owes much to the ideas which inspire the work of George Gerstein beginning with the classic Gerstein 1962 and especially to the insights gained by our colleague Ad Aertsen and his group in Tübingen Our ideas on the cortex find some resonance in a recent trend in Artificial Intelligence Kohonen 1977 Hopfield 1982 Rumelhart et al 1986 and indeed the diagram Braitenberg 1974a representing the dominant idea of that trend the associative matrix with feedback has served as an emblem for the editorial enterprise Studies of Brain Function since its inception in 1977 Since our earlier reports Braitenberg 1974a b 1977 1978a b 1986 Schilz 1976 1978 1981a b 1986 enough

new experimental evidence has accumulated in our own laboratory summarized by Schilz 1989 and elsewhere to justify a more extended and more confident presentation

Statistical Parametric Mapping: The Analysis of Functional Brain Images William D. Penny, Karl J. Friston, John T. Ashburner, Stefan J. Kiebel, Thomas E. Nichols, 2011-04-28 In an age where the amount of data collected from brain imaging is increasing constantly it is of critical importance to analyse those data within an accepted framework to ensure proper integration and comparison of the information collected This book describes the ideas and procedures that underlie the analysis of signals produced by the brain The aim is to understand how the brain works in terms of its functional architecture and dynamics This book provides the background and methodology for the analysis of all types of brain imaging data from functional magnetic resonance imaging to magnetoencephalography Critically Statistical Parametric Mapping provides a widely accepted conceptual framework which allows treatment of all these different modalities This rests on an understanding of the brain's functional anatomy and the way that measured signals are caused experimentally The book takes the reader from the basic concepts underlying the analysis of neuroimaging data to cutting edge approaches that would be difficult to find in any other source Critically the material is presented in an incremental way so that the reader can understand the precedents for each new development This book will be particularly useful to neuroscientists engaged in any form of brain mapping who have to contend with the real world problems of data analysis and understanding the techniques they are using It is primarily a scientific treatment and a didactic introduction to the analysis of brain imaging data It can be used as both a textbook for students and scientists starting to use the techniques as well as a reference for practicing neuroscientists The book also serves as a companion to the software packages that have been developed for brain imaging data analysis An essential reference and companion for users of the SPM software Provides a complete description of the concepts and procedures entailed by the analysis of brain images Offers full didactic treatment of the basic mathematics behind the analysis of brain imaging data Stands as a compendium of all the advances in neuroimaging data analysis over the past decade Adopts an easy to understand and incremental approach that takes the reader from basic statistics to state of the art approaches such as Variational Bayes Structured treatment of data analysis issues that links different modalities and models Includes a series of appendices and tutorial style chapters that makes even the most sophisticated approaches accessible

British Romanticism and the Science of the Mind Alan Richardson, 2001-07-26 In this provocative and original study Alan Richardson examines an entire range of intellectual cultural and ideological points of contact between British Romantic literary writing and the pioneering brain science of the time Richardson breaks new ground in two fields revealing a significant and undervalued facet of British Romanticism while demonstrating the Romantic character of early neuroscience Crucial notions like the active mind organicism the unconscious the fragmented subject instinct and intuition arising simultaneously within the literature and psychology of the era take on unsuspected valences that transform conventional accounts of Romantic cultural history Neglected issues like the

corporeality of mind the role of non linguistic communication and the peculiarly Romantic understanding of cultural universals are reopened in discussions that bring new light to bear on long standing critical puzzles from Coleridge s suppression of Kubla Khan to Wordsworth s perplexing theory of poetic language to Austen s interest in head injury

Computational Anatomy Based on Whole Body Imaging Hidefumi Kobatake,Yoshitaka Masutani,2017-06-14 This book deals with computational anatomy an emerging discipline recognized in medical science as a derivative of conventional anatomy It is also a completely new research area on the boundaries of several sciences and technologies such as medical imaging computer vision and applied mathematics Computational Anatomy Based on Whole Body Imaging highlights the underlying principles basic theories and fundamental techniques in computational anatomy which are derived from conventional anatomy medical imaging computer vision and applied mathematics in addition to various examples of applications in clinical data The book will cover topics on the basics and applications of the new discipline Drawing from areas in multidisciplinary fields it provides comprehensive integrated coverage of innovative approaches to computational anatomy As well Computational Anatomy Based on Whole Body Imaging serves as a valuable resource for researchers including graduate students in the field and a connection with the innovative approaches that are discussed Each chapter has been supplemented with concrete examples of images and illustrations to facilitate understanding even for readers unfamiliar with computational anatomy

Convolutional Neural Networks for Medical Image Processing Applications Saban Ozturk,2022-12-23 The rise in living standards increases the expectation of people in almost every field At the forefront is health Over the past few centuries there have been major developments in healthcare Medical device technology and developments in artificial intelligence AI are among the most important ones The improving technology and our ability to harness the technology effectively by means such as AI have led to unprecedented advances resulting in early diagnosis of diseases AI algorithms enable the fast and early evaluation of images from medical devices to maximize the benefits While developments in the field of AI were quickly adapted to the field of health in some cases this contributed to the formation of innovative artificial intelligence algorithms Today the most effective artificial intelligence method is accepted as deep learning Convolutional neural network CNN architectures are deep learning algorithms used for image processing This book contains applications of CNN methods The content is quite extensive including the application of different CNN methods to various medical image processing problems Readers will be able to analyze the effects of CNN methods presented in the book in medical applications

Biometrics and Neuroscience Research in Business and Management Luiz Moutinho,Moran Cerf,2024-06-17 This book is designed to impart and convey knowledge as well as understanding of the range of biometric technologies and cybertechnologies while also stressing their advantages and disadvantages The authors develop an appreciation for and breadth of knowledge that spans the full range of neuroscience sub disciplines including behavioural cognitive and computational neuroscience Furthermore the content of the book is geared to be able to place neuroscience

into an ethical context especially showing how studying the brain and behaviour can contribute to the resolution of ethical social and environmental issues

From the ear to the brain - new data analytics techniques for a better understanding of human hearing Alessia Paglialonga, Jan Wouters, Norbert Dillier, 2023-06-23

Brain, Mind and Medicine: Harry Whitaker, C.U.M. Smith, Stanley Finger, 2007-10-27 No books have been published on the practice of neuroscience in the eighteenth century a time of transition and discovery in science and medicine This volume explores neuroscience and reviews developments in anatomy physiology and medicine in the era some call the Age of Reason and others the Enlightenment Topics include how neuroscience adopted electricity as the nerve force how disorders such as aphasia and hysteria were treated Mesmerism and more

Handbook of Research on New Investigations in Artificial Life, AI, and Machine Learning Habib, Maki K., 2022-02-25 As technology spreads globally researchers and scientists continue to develop and study the strategy behind creating artificial life This research field is ever expanding and it is essential to stay current in the contemporary trends in artificial life artificial intelligence and machine learning This an important topic for researchers and scientists in the field as well as industry leaders who may adapt this technology The Handbook of Research on New Investigations in Artificial Life AI and Machine Learning provides concepts theories systems technologies and procedures that exhibit properties phenomena or abilities of any living system or human This major reference work includes the most up to date research on techniques and technologies supporting AI and machine learning Covering topics such as behavior classification quality control and smart medical devices it serves as an essential resource for graduate students academicians stakeholders practitioners and researchers and scientists studying artificial life cognition AI biological inspiration machine learning and more

Handbook of Medical Image Processing and Analysis Isaac Bankman, 2008-12-24 The Handbook of Medical Image Processing and Analysis is a comprehensive compilation of concepts and techniques used for processing and analyzing medical images after they have been generated or digitized The Handbook is organized into six sections that relate to the main functions enhancement segmentation quantification registration visualization and compression storage and communication The second edition is extensively revised and updated throughout reflecting new technology and research and includes new chapters on higher order statistics for tissue segmentation tumor growth modeling in oncological image analysis analysis of cell nuclear features in fluorescence microscopy images imaging and communication in medical and public health informatics and dynamic mammogram retrieval from web based image libraries For those looking to explore advanced concepts and access essential information this second edition of Handbook of Medical Image Processing and Analysis is an invaluable resource It remains the most complete single volume reference for biomedical engineers researchers professionals and those working in medical imaging and medical image processing Dr Isaac N Bankman is the supervisor of a group that specializes on imaging laser and sensor systems modeling algorithms and testing at the Johns Hopkins University Applied Physics Laboratory He received his BSc degree in Electrical Engineering

from Bogazici University Turkey in 1977 the MSc degree in Electronics from University of Wales Britain in 1979 and a PhD in Biomedical Engineering from the Israel Institute of Technology Israel in 1985 He is a member of SPIE Includes contributions from internationally renowned authors from leading institutions NEW 35 of 56 chapters have been revised and updated Additionally five new chapters have been added on important topics including Nonlinear 3D Boundary Detection Adaptive Algorithms for Cancer Cytological Diagnosis Dynamic Mammogram Retrieval from Web Based Image Libraries Imaging and Communication in Health Informatics and Tumor Growth Modeling in Oncological Image Analysis Provides a complete collection of algorithms in computer processing of medical images Contains over 60 pages of stunning four color images

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1965 Computational Biomechanics for Medicine Adam Wittek,Magdalena Kobielarz,Anju R. Babu,Martyn P. Nash,Poul M. F. Nielsen,Karol Miller,2024-08-29 This book presents peer reviewed contributions from the MICCAI 2023 Computational Biomechanics for Medicine CBM XVIII Workshop held in conjunction with the 26th International MICCAI Conference The content focuses on applications of computational biomechanics to computer integrated medicine which includes medical image computing application of machine learning in image analysis and biomechanics atlas based biomechanical simulations novel algorithms of computational biomechanics and experimental methods for analysis of disease and injury mechanisms The book details state of the art progress in the above fields to researchers students and professionals Principles and Advanced Methods in Medical Imaging and Image Analysis Atam P. Dhawan,H. K. Huang,Dae-Shik Kim,2008 Computerized medical imaging and image analysis have been the central focus in diagnostic radiology They provide revolutionizing tools for the visualization of physiology as well as the understanding and quantitative measurement of physiological parameters This book offers in depth knowledge of medical imaging instrumentation and techniques as well as multidimensional image analysis and classification methods for research education and applications in computer aided diagnostic radiology Internationally renowned researchers and experts in their respective areas provide detailed descriptions of the basic foundation as well as the most recent developments in medical imaging thus helping readers to understand theoretical and advanced concepts for important research and clinical applications Sample Chapter s Sample Chapter s Chapter 1 Introduction to Medical Imaging and Image Analysis A Multidisciplinary Paradigm 60 KB Contents Principles of Medical Imaging and Image Analysis Recent Advances in Medical Imaging and Image Analysis Medical Imaging Applications Case Studies and Future Trends Readership Graduate level readers in medical imaging and medical image processing *Shape Analysis in Medical Image Analysis* Shuo Li,João Manuel R. S. Tavares,2014-01-28 This book contains thirteen contributions from invited experts of international recognition addressing important issues in shape analysis in medical image analysis including techniques for image segmentation registration modelling and classification and applications in biology as well as in cardiac brain spine chest lung and clinical practice This volume treats topics such as for example anatomic and functional shape representation and matching shape

based medical image segmentation shape registration statistical shape analysis shape deformation shape based abnormality detection shape tracking and longitudinal shape analysis machine learning for shape modeling and analysis shape based computer aided diagnosis shape based medical navigation benchmark and validation of shape representation analysis and modeling algorithms This work will be of interest to researchers students and manufacturers in the fields of artificial intelligence bioengineering biomechanics computational mechanics computational vision computer sciences human motion mathematics medical imaging medicine pattern recognition and physics Geometry, Mechanics, and Dynamics Dong Eui Chang, Darryl D. Holm, George Patrick, Tudor Ratiu, 2015-04-16 This book illustrates the broad range of Jerry Marsden's mathematical legacy in areas of geometry mechanics and dynamics from very pure mathematics to very applied but always with a geometric perspective Each contribution develops its material from the viewpoint of geometric mechanics beginning at the very foundations introducing readers to modern issues via illustrations in a wide range of topics The twenty refereed papers contained in this volume are based on lectures and research performed during the month of July 2012 at the Fields Institute for Research in Mathematical Sciences in a program in honor of Marsden's legacy The unified treatment of the wide breadth of topics treated in this book will be of interest to both experts and novices in geometric mechanics Experts will recognize applications of their own familiar concepts and methods in a wide variety of fields some of which they may never have approached from a geometric viewpoint Novices may choose topics that interest them among the various fields and learn about geometric approaches and perspectives toward those topics that will be new for them as well Psychiatry
September 2001--August 2002 Phillip Richard Slavney, 2001

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